SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT:

(A) NAME: RHONE-POULENC AGROCHIMIE

(B) STREET: 14-20 Rue Pierre BAIZET

(C) TOWN: LYONS

(E) COUNTRY: France

(F) POST CODE: 69009

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(ii) TITLE OF THE INVENTION: Gene coding for androctonine, vector containing it and disease-resistant transformed plants obtained

15 (iii) NUMBER OF SEQUENCES: 11

(vi) COMPUTER-READABDE FORM:

(A) MEDIUM TYPE: Floppy disk

(B) COMPUTER: IBM QC compatible

(C) OPERATING SYSTEM PC-DOS/MS-DOS

(D) SOFTWARE: PatentIn Release #1.0,

Version #1.30 (EPO)

(2) INFORMATION FOR SEQ ID NO: 1:

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(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 110 base pairs

(B) TYPE: nucleotide

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(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA

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(ix) FEATURE:

- (A) NAME/KEY: CDS
- (B) LOCATION: 1..75
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1: 10

AGG TCC GTG TGC AGG CAG ATC AAG ATC TGC AGG AGG AGG GGT GGT TGC 48 Arg Ser Val Cys Arg Gin lie Lys lie Cys Arg Arg Arg Gly Gly Cys

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Tyr Tyr Lys Cys Thr Asn Arg Pro Tyr

TOTOGROGGA TOOGG

110

20 (2) INFORMATION FOR SEQ ID NO: 2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 106 base pairs
- (B) TYPE: nucleotide
- (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA

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(ix) FEATURE:

(A) NAME/KEY: CDS

(B) LOCATION: 12..101

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

GOGTOGRACGO C ATG GGT TTC GTG CTT TTC TCT CAG CTT CCA TCT TTC CTT 50 Met Gly Phe Val Leu Phe Ser Gln Leu Pro Ser Phe Leu

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CTT GTG TCT ACT CTT CTT TTC CTT GTG ATC TCT CAC TCT TGC CGT 98 Leu Val Ser Thr Leu Leu Leu Phe Leu Val Ile Ser His Sor Cys Arg

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106

15 GCC GGCGA

Ala

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(2) INFORMATION FOR SEQ ID NO: 3:

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(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 211 base pairs

(B) TYPE: nucleotide

(C) STRANDEDNESS: double

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(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA

(ix) FEATURE:

(A) NAME/KEY: CDS

(B) LOCATION: 12..176

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

GCGTCGACGC C ATG GGT TTC GTG CTT TTO TCT CAG CTT CCA TCT TTC CTT 50 Met Gly Phe Val Leu Phe Ser Gin Leu Pro Ser Phe Leu

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CTT GTG TCT ACT CTT CTT TTC CTT GTG ATC TCT CAC TCT TGC CGT 98 Lou val Ser Thr Lou Lou Lou Phe Lou Val Ile Ser His Ser Cys Arg 1.5 20

15 GCC AGG TCC GTG TGC AGG CAG ATC AAG ATC TGC AGG AGG AGG GGT GGT 146 Als Arg Ser Val Cvs Arg Gln Ile Lys Ile Cys Arg Arg Arg Cly Gly

TGC TAC TAC BAG TGC ACT BAC AGG COR TAC TGAGCTCGGC GAGGCGBACG

20 Cys Tyr Tyr Lys Cys Thr Asn Arg Pro Tyr

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TGTCGACGGA TCCGG

211

25 (2) INFORMATION FOR SEO ID NO: 4:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 75 base pairs

(B) TYPE: nucleotide

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(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "synthetic 5 oligonucleotide 1"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

10 GCGTCGACGC GATGGGTTTC GTGCTTTTCT CTCAGCTTCC ATCTTTCCTT CTTGTGTCTA 60 CTCTTCTTCT TTTCC

- (2) INFORMATION FOR SEQ ID NO: 5:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 72 base pairs
    - (B) TYPE: nucleotide
      - (C) STRANDEDNESS: single
      - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - DESCRIPTION: /desc = "synthetic (A) oligonucleotide 2"
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

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TCGCCGGCAC GGCAAGAGTA AGAGATCACA AGGAAAAGAA GAAGAGTAGA CACAAGAAGG 60 72 AAAGATGGAA GC

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(2) INFORMATION FOR SEQ ID NO: 6:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 44 base pairs

(B) TYPE: nucleotide

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(11) MOLECULE TYPE: other nucleic acid

DESCRIPTION: /desc = "synthetic

oligonucleotide 3"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

AGGTCCGTGT GCAGGCAGAT CAAGATCTGC AGGAGGAGGG GTGG

INFORMATION FOR SEQ ID NO: 7: (2)

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 97 base pairs

(B) TYPE: nucleotide

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

DESCRIPTION: /desc = "synthetic (A)

oligonucleotide 4" 25

(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

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EGGGATECST EGACACSTTE GEETEGEEGA GETEAGTATG GEETGTTAGI GEACTTGTAG 60

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TAGCARCCAC CCCTCCTCCT GCAGATCTTG ATCTGCC

## (2) INFORMATION FOR SEC ID NO: 8:

- (i) SEQUENCE CHARACTÉRISTICS: 5
  - (A) LENGTH: 85 base pairs
  - (B) TYPE: nucleotide
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

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- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic oligonucleotide 5"
- 15 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
  - AGGGCCCCCT AGGGTTTAAA CGGCCAGTCA GGCCGAATTC GAGCTCGGTA CCCGGGGATC

CTCTAGAGTC GACCTGCAGG CATGC

- 20 (2) INFORMATION FOR SEQ ID NO: 9:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 66 base pairs
    - (B) TYPE: nucleotide
    - (C) STRANDEDNESS: single
- 25 (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: other nucleic acid
    - (A) DESCRIPTION: /desc = "synthetic

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oligonucleotide 6"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

5 CCCTGAACCA GGCTCGAGGG CGCGCCCTTAA TTAAAAGCTT GCATGCCTGC AGGTCGACTC TAGAGG

(2) INFORMATION FOR SEQ ID NO: 10:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 93 base pairs

(B) TYPE: nucleotide

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid 15

(A) DESCRIPTION: /desc = "synthetic

oligonucleotide 7"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

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CCGGCCAGTC AGGCCACACT TRATTAAGTT TAAACGCGGC CCCGGCGCGC CTAGGTGTGT

GCTCGAGGGC CCAACCTCAG TACCTGGTTC AGG

93

(2) INFORMATION FOR SEQ ID NO: 11:

(i) SEQUENCE CHARACTERISTICS: 25

(A) LENGTH: 93 base pairs

(B) TYPE: nucleotide

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid DESCRIPTION: /desc = "synthetic oligonucleotide 8" (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11: CCGGCCTGAA CCAGGTACTG AGGTTGGGCC CCCGGGGCCACA CACCTAGGGG CGCCGGGGCC 10 GCGTTTAAAC TTAATTAAGT GTGGCCTGAC TGG